	Application No.	Applicant(s)
Notice of Allowability	10/708,400	OTSUKI ET AL.
	Examiner	Art Unit
	Anatoly Vortman	2835
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Right of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject	oplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to RCE filed on 07/21/06	<u>6</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-12</u> .		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTC	0-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s)	E	Patent Application (PTO-152)
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ⊠ Interview Summar	,, , , , , , , , , , , , , , , , , , , ,
	Paper No./Mail D	ate <u>8/18/06</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 8/21/06 	8), 7. Examiner's Amend	dment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Staten 9. □ Other	nent of Reasons for Allowance
	A-lew	Anatoly Vortman Primary Examiner AU 2835

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James W. Judge, Reg. No. 42,701 on August 8, 2006.

The application has been amended as follows:

Claim 1, line 18 of the claim, following "group of" [the] has been deleted and -- several, but not all, adjacent-- has been inserted before "heat radiating fins".

Claim 10, line 19 of the claim, following "group of" [the] has been deleted and -- several, but not all, adjacent-- has been inserted before "heat radiating fins".

The following amendments not affecting the scope of the claims have been made without consultation with the attorney of record, in order to correct minor informalities:

Claim 1, line 17 of the claim, [the] has been replaced with --an-- before "envelope".

Claim 3, last line of the claim, [an] has been replaced with --the-- before "envelope".

Claim 8, line 2 of the claim [the arm portions is] has been replaced with --arm portions are--.

Claim 9, line 2 of the claim [the positioning portion is] has been replaced with --positioning portions are--.

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Claim 10, line 18 of the claim, [the] has been replaced with --an-- before "envelope".

2. The following is an examiner's statement of reasons for allowance:

Allowability resides in the overall structure of the device as recited in independent claims 1 and 10, and at least in part, because:

Claim 1, as amended, recites: "an axial flow fan [...] at least one circumferentially partial engagement feature is formed along an envelope of the heat sink by distal-edge protrusions or recesses in a group of several, but not all adjacent heat radiating fins"; and,

Claim 10, as amended, recites: "an axial flow fan [...] a plurality of circumferentially partial engagement features is formed along an envelope of the heat sink by distal-edge protrusions or recesses in groups of several, but not all adjacent heat radiating fins".

The aforementioned limitations <u>in combination with all</u> remaining limitations of claims 1 and 10, respectively, are believed to render the claims and all claims dependent therefrom patentable over the art of record. The aforementioned limitations clearly distinguish the claims over JP/2003-258473 (primary reference used in the rejection), which teaches (Fig. 1) a heat sink fan comprising: a circumferentially partial engagement feature (9a) formed along an envelope of the heat sink by distal-edge recesses in <u>all</u> adjacent heat radiating fins (21), not in a <u>group(s) of several, but not all</u> adjacent heat radiating fins as required by claims 1 and 10 of the instant application. The aforementioned distinction is a valuable inventive feature, which would allow for the fan housing to be locked in place in order to prevent rotation of said housing in a horizontal plane.

Further, Examiner has cited the following references pertinent to the present invention:

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US 6879487, 6538888, 6515862, 6414848, 6386274, 6336499, 5597034, and 5579827 disclosed various cooling arrangements for heat generating electrical components comprising heat sinks and fans.

None of the references cited during prosecution of the instant application, either taken alone or in combination, is believed to render the present invention unpatentable as claimed.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 571-272-2047. The examiner can normally be reached on Monday-Friday, between 10:00 am and 6:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Lynn Feild can be reached on 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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